

GICIN-SAJID, S.

X-ray anatomy of the diaphragm. Acta chir. jugosl. 4 no.3:266-272
1957.

1. Zavod za radiologiju Medicinskog fakulteta u Zagrebu (Predstojnik:
prof. dr. Milan Smokvina).

(DIAPHRAGM. anat. & histol.

x-ray anat. (Ser))

CICIN-SAIN, S.; MARK, B.

Roentgenological diagnosis of congenital anomalies of location of the gastrointestinal tract. Acta chir. iugosl. 6(7) no.3: 227-235 '59.

1. Zavod za radiologiju Medicinskog fakulteta u Zagrebu, Predstojnik:
prof. dr. Milan Smokvina.
(SITUS INVERSUS radiography)

CICIN-SAIN, Sime, dr.; LJUBIČIĆ, Sigismund, dr.

Megacolon congenitum. Lijec. vjes. 81 no.9-10:673-678 '59.

1. Iz Zavoda za radiologiju Medicinskog fakulteta u Zagrebu..
(MEGACOLON case reports)

CICIN-SAIN, Sime; KOS, Vitomir

Primary sarcomas of the small intestine. Rad. med. fak. Zagreb 8
no.2:195-202 '60.

(INTESTINE SMALL neopl) (SARCOMA radiog)

IVANISEVIC, Boris, Dr.; CICIN-SAIN, Sime, Dr.; CECUK, Ljubomir, Dr.

Congenital malignant mixed tumor of the kidney - Wilms tumor. Lijec
vjes 82 no.11:857-864 '60.

1. Iz Kirurske klinike i Zavoda za kliniku rentgenologiju Medicinskog
fakulteta Sveucilista u Zagrebu.

(NEPHROBLASTOMA in inf & child)
(KIDNEYS neopl)

VIDOVIC, M.; CICIN-SAIN, S.

Mobile cecum. Acta chir.iugosl. 8(9) no.2:105-121 '61.

1. Kirurska klinika Medicinskog fakulteta u Zagrebu (Predstojnik
prof. dr D. Juzbasic) i Zavod za radiologiju Medicinskog fakulteta
u Zagrebu (Predstojnik prof. dr M. Smokvina)

(CECUM abnorm.)

CICIN-SAIN, Sime; LJUBIBRATIC, Sigismund; VIDOVIC, Milan

Intravenous pyelography with intravesical compression of the urethra as a supplement to the routine roentgenological examination of the urinary tract. Rad. med. fak. Zagreb 9 no.1:99-108 '61.

(PYELOGRAPHY)

HORVAT, Zvonimir, dr.; MARINSEK-BROZ, Viktorija, dr.; CICIN-SAIN, Sime, dr.

Gastrointestinal allergy simulating malignant tumors. Lijecn. vjesn.
85 no.10:1117-1124 '63.

1. Iz klinike i Zavoda za klinicku rendgenologiju Medicinskog fakulteta Sveucilista u Zagrebu.

S

KALLAI, Laszlo, dr.; HADZIC, Nijaz, dr.; MARINSEK-BROZ, Viktorija, dr.
CICIN-SAIN, Sime, dr. BARKAN, Ivo, dr.

Hiatal hernia. Liječn. vjesn. 86 no.10:1195-1214 0 ' 64

1. Iz Interne klinike, Zavoda za radiologiju i Kirurske
klinike Medicinskog fakulteta u Zagrebu.

YUGOSLAVIA

CICIN-SAIN, S., Dr, MARINSEK, V., Dr, KNEZEVIC, S., Dr; Institute for Radiology, and Department of Medicine, Medical Faculty, University of Zagreb (Zavod za radiologiju i interna klinika Medicinskog fakulteta Sveucilista u Zagrebu), Zagreb.

"Postbulbar Peptic Ulcers of the Duodenum"

Zagreb, Liječnicki Vjesnik, Vol 87, No 12, 1965, pp 1339-1345.

Abstract/Authors' English summary/: The authors stress the clinical and roentgenological symptomatology of postbulbar ulcers because of their abundant hemorrhages and diagnostic difficulties. They point out that these ulcers very often remain undiscovered in routine gastroduodenal examinations. By early and correct diagnosis serious complications can be avoided in a great degree. 3 Yugoslav, 7 Western references.

Manuscript received 18 August 1965.

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- 13 -

CICKIEWICZ, Z.; Strzalkowski, T.

The mechanization of the unloading of ballast. p. 257.
(PRZEGLAD KOLEJOWY DROGOWY. Vol. 8, no. 11, Nov. 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.
Uncl.

CICKIEWICZ, Z.

Portable electric drill. Przegląd Dodatek. p.77

(PRZEGLĄD KOLEJOWY DROGOWY. Vol. 9, No. 6, June 1957. Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 10, October 1957. Uncl.

HRUBISKO, M.; HODZOVA, O.; MAYEROVA, A.; CIGMANCOVA, L.; Technicka
spolupraca: KULICHOVA, E.

Beta-thalassemia in a Slovak family. Cas. lek. Cesk. 104 no.47:
1290-1296 26 N '65.

1. Fakultna transfuzna stanica, subkatedra hematologie a trans-
fuzie krvi UDVLf v Bratislave (veduci doc. dr. M. Hrubisko, CSc.)
a II. interna klinika Lekarskej fakulty Univerzity Komenskeho v
Bratislave (prednosta prof. dr. V. Haviar). Submitted February
1965.

Cismanová, L.

V 522. Compleximetric determination of bromoform in syrups. M. Šaršánová and Cismanová (Dist. Control Lab. Bratislava Medica, Czechoslovakia) (*Českosl. Farmac.*, 1955, 4 (4), 187-198).—The method consists in saponification of the bromoform and precipitation of the bromide thus formed with an excess of AgNO₃ soln. The AgBr is dissolved in an excess of aq. NH₃ soln. and K₂Ni(CN)₄ is added. The Ag complexes with the cyanide and the liberated Ni is titrated with EDTA (disodium salt) with murexide as indicator. The method is suitable for the determination of bromoform alone or in syrups. The error is $< \pm 0.6$ per cent.

A. O. JAKUBOVIC

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H

COUNTRY : CZECHOSLOVAKIA
 CATEGORY : Chemical Technology. Chemical Products and Their
 Application. Pharmaceuticals. Vitamins. Antibio-*
 ABS. JOUR. : RZhKhim., No 17, 1959, No. 61821
 AUTHOR : Sarsunova, M.; Cismancova, I.
 INSTITUTE : -
 TITLE : Evaluation of Certain Active Components of
 Pharmaceutical Gintments
 ORIG. PUB. : Farmacia (Ceskosl.), 1957, 26, No 11, 317-322
 ABSTRACT : Suitabilities of certain well known methods for
 the quantitative and qualitative determinations of
 Ca(OH)₂, CHCl₃, and camphor, as ingredients of
 the ointments, were checked. Presented are details
 of the analyses methods, recommended for the in-
 clusion into the Czechoslovakian Pharmacopoea.
 --T. Zvarova.

*tics.

Card: 1/1

H - 68

83399

Z/037/60/000/005/055/056
E192/E382

9.2585

AUTHOR: Čičmanec, P.

TITLE: A Source of Stable Frequency for the 3.2 cm Band
Based on a Single-sideband Modulator

PERIODICAL: Československý časopis pro fysiku, 1960,
No. 5, p. 511

TEXT: The system is based on a klystron, whose frequency is stabilised by means of a high-quality cavity resonator, by the method proposed by R.V. Pound, and a single-sideband modulator, where the frequency generated by the klystron is reduced; the frequency of an auxiliary oscillator having a tuning range of several Mc/s is also reduced in the modulator. The output signal of the modulator is suitable for use in accurate frequency measurements.

ASSOCIATION: Prírodovedecká fakulta Univerzity Komenského,
Bratislava (Natural Science Faculty of
Komenský University, Bratislava)

Card 1/1

CICO, Skender

Regeneration of bone tissue under the influence of desoxy-
corticosterone acetate (DOCA). Bul.Univ.Shtet.Tirane no.3/4:
54-65 '63.

1. Katedra e anatomise dhe histologjise (Shefi i Katedres -
Skender Cico), Universitetit Shteteror te Tiranes.

LATIU, E.; CICOARE, Lucia

Some considerations on the structure of alkali silicates. Studii mat
Timiscara 7 no.1/2:49-59 Ja-Je '60. (EEAI 10:4)

(Lithium silicates)

(Potassium silicates)

(Sodium silicates)

LATIU, E.; MIHAI, Fr.; CICOARE, Lucia

Research on the bentonite of the Tomesti-Faget area. Studii mat
Timisoara 7 no.1/2:179-192 Ja-Je '60. (EEAI 10:4)
(Rumania--Bentonite)

LATIU, E.; CICOARE, Lucia

The change adsorption of the indigenous tuffs, bentonites, and
diatomites. Studii chim Timisoara 7 no.3/4:341-345 JI-D '60.
(EEAI 10:9/10)

(Rumania—Volcanic ash, tuff, etc.)

(Rumania—Bentonite) (Rumania—~~Kieselguhr~~)

LATIU, E.; MIHAI, F.; CICOARE, Lucia

Studies on some bentonitic soils of the regions of Banat and
Humedoara. Studii chim Timisoara 8 no.1/2:171-180 Ja-Je (61.

(Rumania—Soils) (Bentonite)

LATIU, V.; ABRAMOVICI, R.; CRISTEA, V.; CICOARE, L.; PASCU, E.

Study of Obreja quartizite in view of its utilization for
silica refractory manufacturing. Bul St si Tehn Tim 9 no.2:
355-359 J1-D '64.

LATIU, E.; MIHAI, F.; CICOARE-METES, L.

Researches on the varieties of the serpentine, chrysotile, and antigorite of the Dubova-Orsova area, region of Timisoara. *Studii chim Timisoara* 6 no.3/4:85-93 J1-D '59. (EEAI 10:4)

(Rumania--Serpentine)

(Rumania--Chrysolite)

(Rumania--Antigorite)

GIGOVAKI, Danilo, potpukovnik, dr.; STOJANOV, Simeon, major dr.

Case of rheumatic pleuropneumonia. Voj. san. pregl., Beogr. 11
no.11-12:722-726 Nov-Dec 54.

1. Interno odeljenje Oblasne bolnice u Skoplju.
(PLEURO-PNEUMONIA
rheumatic)
(RHEUMATISM
rheum. pleuropneumonia)

CICOVACKI, Danilo, Dr

Tic of the intercostal muscle in the form of extracardiac pseudo-pulsation. Srpski arh.celok.lek. 87 no.10:1277-1281 Oct. 54.

1. Umrtasnje odeljenje Vojne bolnice u Skoplju. Nacelnik: dr. Dusan Cvetkovic.

(TIC,

intercostal musc. in form of extracardiac pseudo-pulsation)

(THORAX, muscles,

intercostal, tic in form of extracardiac pseudopulsation)

CICULESCU-AUDIZZIO, M

BRAUNER, R., Prof.; MOLHO, M., dr.; SCHONFELD, L., dr.;
CICULESCU-AUDIZZIO, M., dr.; PANDELESCU, L., dr.

Notes on a case of erythroblastic anemia. Med. int., Bucur.
8 no.2:211-219 Apr-May 56.

1. Clinica medicala a Spitalului Brincovenesc.
(ANEMIA, ERYTHROBLASTIC
diag., clin. & hematol. aspects)

CICVAREK, A

CICVAREK, A. Joint conference of Hungarian and Czechoslovak veterinary technicians and veterinarians. P. 365, Vol 3, no. 7, 1956, VESTNIK Praha, CZECHOSLOVAKIA

SOURCE: EAST EUROPEAN ACCESSIONS LIST (EEAL) VOL 6 NO 4 APRIL 1957

Cicvarek, A.

Cicvarek, A. Hungarian-Czechoslovak meeting on the zootechnic and veterinary problems of cattle breeding. P. 642. Vol. 3, no. 12, 1956, VESTNIK Praha, CZECHOSLOVAKIA

SOURCE: EAST EUROPEAN ACCESSIONS LIST (EEAL) VOL 6 NO 4 APRIL 1957

CICVAREK, Z.

Uroovaniie rychlosti krvneho prudu u deti pomocou lobelinu. [Determination of the blood circulation rate in children with lobelin]
Bratisl. lek. listy 30:4-5 Apr-May 50 p. 331-9

1. Of the Children's Department of the State Regional Hospital
(Head-Physician -- F. Sinko M. D.).

CICVAREK, Z.; HORANSKY, V.

Epidemic hepatitis in pediatric ward of a district hospital. Lek. obzor
1 no. 11:561-564 1952.
(CML 24:3)

1. Of the Pediatric Department of Likeric State District Hospital.

CICVAREK, Z.

Poisoning with antihistamine Spofa. Pediat. listy, Praha 7 no. 3:
172 May-June 1952. (CLML 22:4)

1. Of the Pediatric Department of Likier State District Hospital.

CICVAREK, Z.

Standardization of laboratory biochemical examination of the blood
and cerebrospinal fluid in a small hospital. Lek. obzor 2 no.3:187-200
Mar 1953. (GLML 24:5)

1. Of the Pediatric Department of OUNZ in Liker.

CICVAREK, Z.;MYSKA, P.;MYSKOVA, D.

Incidence of intestinal parasites in children in central Slovakia.
Pediat. listy, Praha 8 no.1:32-35 Feb 1953. (CIML 24:3)

1. Of the Pediatric Department of OUNZ in Likeric.

HOMOLKA, J.; GIGVAREK, Z.

Determination of salicylates in biological liquids. *Pediat. listy, Praha*
8 no.1:45-46 Feb 1953. (CLML 24:3)

1. Of the First Pediatric Clinic (Head--Prof. J. Svejcar, M. D.) of
Charles University, Prague and of the Pediatric Department of OUNZ in
Likeric.

CICVAREK, Z.

Occurrence of fetal hemoglobine in children. Pediat. listy, Praha 9
no.6:330-333 Dec 54.

1. Z I. Detske kliniku SU v Bratislave. Prednosta doc. MUDr I.Jakubcova
(HEMOGLOBIN
fetal in child.)

CICVAREK, Z.

Fetal hemoglobin level in anemias in childhood. Bratisl. lek.
listy 35 no.12:705-709 30 June 55.

1. Z I. detskej kliniky LFUK v Bratislave, prednosta doc. dr.
I. Jakubcova.

(ANEMIA, in infant and child
fetal hemoglobin level determ. in differ. diag.)

(HEMOGLOBIN

fetal in anemia in child., level determ., value in
differ. diag.)

CICVARAK, 2

The accuracy in biochemical laboratories. Z. Clevat and J. Homolka (Poverenictvo Zdravotnictva, Bratislava, Czech.). *Časopis Lékařů Českých* 94, 1228-30 (1955) (Slovakian). — Tests were made in 13 hospital labs. Of 40 analyses only 7 had an error less than 10%. The test had an av. error of $\pm 8.8\%$. Results differing from the correct value by a factor of 5 or 10 were also obtained. The worst results for glucose were obtained by the Glukofor or Crocillus-Seifert app.; Hawkins' simple method gave better results; Hagedorn's method was not sufficiently mastered. Urea was estd. by Kowarski's method with unsatisfactory results although fresh NaOBr soln. was always used. Incorrect results for chlorides seemed to be due to incorrect titers of the AgNO_3 soln. Best results were obtained using HgNO_3 titration with diphenylcarbazone indicator. The error of the Ca estn. seemed to be due to incorrect use of KMnO_4 solns. The Liebermann-Burchard reaction for cholesterol was incorrectly performed. Bad quality of reducing reagents was partly responsible for the error of P estns. Micromethods were no more accurate than micromethods. All of the labs. were well equipped.

I. M. Hais

TREGER, Prof. MUDr.; MOYS, A., MUDr.; MUZIKOVA, M., RND.; CIGVAREK, Z.,
MUDr.; IVASKO, L.; SINTAJ, M., MUDr.

Further experiences in the treatment of Leiner-Mossous disease with
potassium sulphate. Cesk.pediat. 11 no.2-3:145-148 Mar 1956.

1. Z dermatovenerlogicej kliniky UK v Bratislave, prednosta
prof. Dr. J.Treger z I. detskej kliniky UK v Bratislave,
prednosta doc. Dr I.Jakubcova.

(ERYTHRODERMA DESQUAMATIVUM, ther.

potassium sulphate)

(SULFATES, ther. use

potassium sulfate in erythroderma desquamativum)

(POTASSIUM

potassium sulfates, ther. of erythroderma desquamativum)

CICVAREK, Z:

Hemoglobin; a review. Cesk. pediat. 12 no.5-6:499-507
May-June 57.

1. Centrálné laboratórium OUNZ Trenčín, prednosta Dr. Z. Cicvarek.
(HEMOGLOBIN
review (Cs))

CICVAREK, Z.
HORANSKY, V.; CICVAREK, Z.

Kwashiorkor in a 1 1/2 year old child. Cesk. pediat. 12 no.9:783-788 5 Sept 57.

1. I. det. odd. OUNZ v Trencine; prednosta prof. A. J. Chura.
Pediatricka katedra SUDL v Trencine; prednosta A. Getlik. Centralne
laboratorium OUNZ v Trencine; prednosta Z. Cicvarek.
(KWASHIORKOR, case reports
in 1-year old gypsy child (Cs))

CICVAREK, Z.; DIESKA, D.; IZAKOVIC, V.

Waldenstrom's Macroglobulinaemia. II. Some properties of blood serum proteins. Neoplasma, Bratisl. 7 no.1:48-60 '60.

1. Chair of Internal Medicine, Slovak Postgraduate Medical Institute, Trencin; Central Laboratory of Biochemistry, Territorial Institute of Public Health, Trencin, CSR.

(SERUM GLOBULIN)

(BLOOD PROTEINS)

Q. I. V. A. R. E. N. I.

1. Five years of activity of the SLOVAK Institute for Graduate Medical Training: F. VONCOTIC, Deputy Director (masnicka 114/114a), SLOVAK INSTITUTE FOR GRADUATE MEDICAL TRAINING (Slovakia) (University of Medicine and Surgery, Bratislava), pp 681-687.
2. Participation in Science and Medicine: J. JANCOTICOVA, Department of Parasitology (Slovakia) (masnicka 114/114a), SLOVAK INSTITUTE FOR GRADUATE MEDICAL TRAINING, pp 684-686.
3. Spreading Chronic Effects of Phosgene Effluents in Air on Health Status of Workers: P. VONCOTIC, Department of P. Medicine (masnicka 114/114a), SLOVAK INSTITUTE FOR GRADUATE MEDICAL TRAINING (Slovakia) (University of Medicine and Surgery, Bratislava), Director (Premonstra) Present P. MEDIC, M.D.; pp 688-691.
4. Immunobiologic Study of a Group of Persons Having Differing Histories with respect to typhoid fever: J. JANCOTIC, M.D., Director (Vodna), Immunology of Infectious and Microbiology (Slovakia) (University of Medicine and Surgery, Bratislava), M. JANCOTIC, M. MEDIC, I. MEDIC, P. MEDIC, M.D.; pp 687-690.
5. Myocardial Diabetes and Pectal Microscopical: V. VONCOTIC, Z. JANCOTIC, Department of Internal Medicine (masnicka 114/114a), SLOVAK INSTITUTE FOR GRADUATE MEDICAL TRAINING, M.D., masnicka 114/114a, SLOVAK INSTITUTE FOR GRADUATE MEDICAL TRAINING (Slovakia) (University of Medicine and Surgery, Bratislava), Director (Premonstra) M.D.; pp 687-691.
6. Causes of Reported Hospitalizations During Conservative Treatment of Pulmonary Tuberculosis: K. VONCOTIC, Director (masnicka 114/114a), Department of Embryology (masnicka 114/114a), SLOVAK INSTITUTE FOR GRADUATE MEDICAL TRAINING, pp 674-681.
7. Changes in the Renal Residual Proteins and Tyrosine After Administration of Tetracycline: A. VONCOTIC, M.D., Department of Clinical Microbiology (masnicka 114/114a), Director (Premonstra) Prof. T.R. MEDIC, M.D.; pp 688-684.

EMANUEL, L'.; CÍCVAREK, Z.

Changes in blood proteins in chronic lupus erythematosus during the course of resochin therapy. Cesk. dermat. 36 no.1:21-27 F '62.

1. Dermatovenerologická katedra SUDL v Trenčine, veduci katedry MUDr. L. Emanuel a Centrálné biochemické laboratórium OUNZ v Trenčine, veduci MUDr. Z. Cícvarek.

(BLOOD PROTEINS chem) (LUPUS ERYTHEMATOSUS blood)
(CHLOROQUINE ther)

Cicvarek, Z

CICVAREK, Z.; CERNAY, J.;
M. LAGDOLENOVA (technical co-worker)

CSSR

Central biochemical laboratory (Centralne biochemicke laboratorium) OUNZ,
Trencin; director: Z. Cicvarek, MD; Pediatric dept. of Slovak Institute for
Graduate Medicine (Pediatricka katedra Slov. ustavu pre doskolovanie lekarov)
Trencin; director: A. Getlik, MD

Bratislava, Bratislavske Lekarske Listy, No 5, 1963, pp 257-262

"Estimation of Reduced Glutathion in the Blood by Iodometric Dead-Stop Titration"

(3)

CZECHOSLOVAKIA

CERNAY, J; CIGVAREK, Z., MD.

1. Pediatric Chair SUDL (Pediatricka katedra SUDL), Trencin
2. Central Biochemical Laboratory OUFZ (Centralne biochemicke laboratorium OUFZ), Trencin (for Cigvarek)

Bratislava, Bratislavské lekárske listy, No 9, 1963, pp 517-521

"Blood Levels of Reduced Glutathione in Healthy Children at School Age."

CERNAY, J.; CÍČVAREK, Z.

Blood levels of reduced glutathione in healthy children of school age. Bratisl. lek. listy 43 Pt. 1 no.9:517-523 '63.

1. Pediatricka katedra SUDL v Trenčine, veduci MUDr. A. Getlik, a Centrálna biochemické laboratórium OUNZ v Trenčine, veduci MUDr. Z. Cíčovarek.

(GLUTATHIONE) (CHILD) (ADOLESCENCE)
(BLOOD CHEMICAL ANALYSIS)

GICVAREK, Z.; CERNAY, J.; Techn. spoluprac.: MAGDOLENOVA, M.

Determination of reduced glutathione in the blood by iodometric
dead-stop titration. Bratisl. lek. listy 43 Pt. 1 no. 5:257-262
'63.

1. Centralne biochemicke laboratorium OUNZ Trencin, veduci
MUDr. Z. Gicvarek, a Pediatricka katedra Slov. ustavu pre
doskolovanie lekarov v Trencine, veduci MUDr. A. Getlik.
(GLUTATHIONE) (BLOOD CHEMICAL ANALYSIS)

CERNAY, J.; CIEVAREK, Z.; technická spolupráce STURDIKOVÁ, M.

Relation of the level of glutathione reductase in the blood
to weight and body surface in healthy children of school age.
Cesk. pediat. 19 no.11:979-982 N 1964

1. Pediatrická katedra SÚJ - Trenčín (vedoucí MUDr. A. Gešlík)
a Centrální biochemické laboratorie Ústavu národního zdraví v Trenčíně (vedoucí MUDr. Z. Cievarek).

CICVAREK, Z.; Technicka spoluprace: CSILLAGI, E.

On the mechanism of a positive thymol turbidity reaction in
Waldenstrom's macroglobulinemia. Bratisl. lek. listy 44
no.7:385-390 15 0 '64.

1. Centralne biochemicke laboratorium Obvodniho ustavu narodniho
zdravi v Trencine (veduci MUDr. Z. Cicvarek).

VARGA, F.; GETLIKOVÁ, K.; CÍČÁREK, Z.

Determination of plasma iron levels during the course of epidemic hepatitis. Bratisl. lek. listy 44 no.11:652-661 D 15, '64

1. Infekčné oddelenie nemocnice Obvodného ústavu národnej zdravoti v Trenčíne (vedúca - MUDr. K. Getliková) a Centrálna biochemické laboratórium Obvodného ústavu národnej zdravoti v Trenčíne (vedúci - MUDr. Z. Cíčovský).

CERNAY, J.; CIOVAREK, Z.

Level of glutathione reductase in the blood in mild anemia in children. Preliminary report. Cesk. pediat. 20 no.2:138-140 F '65

1. Pediatricka katedra Ustavu pre dalsie vzdelavanie lekarov a farmaceutov v Trencine (veduci: doc. dr. A. Getlik) a Centralne biochemicke laboratorium Obvodniho ustavu narodniho zdravi v Trencine (veduci: MUDr. Z. Ciovarek).

CICVAREK, Z.; TOFFLER, I.

Rapid detection of barbiturates in biological material.
Vnitřní lek. 11 no.7:697-702 J1 '65.

1. Z Centralneho biochemického laboratoria Obvodního ustavu
narodního zdraví v Trenčine (veduci MUDr. Z. Cicvarek).

CZECHOSLOVAKIA

CICVAREK, Z., MUDr.; SLUGENOVA, E.

Central Biochemical Laboratory (Centralne Biochemicke
Laboratorium), OUNZ, Trenchina (for both; Cicvarek-
Director).

Bratislava, Lekarsky obzor, No 7, July 1965, pp 393-400.

"A contribution to the problem of standardization of
determination hemoglobin in the blood."

IZAKOVIC, V.: GLAVAR, Z.

The incidence of pathological (diabetic and border-line) glycaemic curves in mothers of infants with excessive birth weight. Vnitřní lek. 11 no.11:1082-1089 N :65.

1. Katedra vnútorného lekárstva Slovenského ústavu pre doskolovanie lekárov v Trenčíne (vedúci doc. MUDr. D. Dieska) a Centrálna biochemické laboratórium Ústavného ústavu národného zdravia v Trenčíne (vedúci MUDr. Z. Glavár).

CZECHOSLOVAKIA

CICVAREK, Z., MUDr.

Head, Central Biochemical Laboratory (Veduci Centralneho
biochemickeho laboratoria), OUNZ, Trencin

Bratislava, Lekarsky obzor, No 12 [December] 1965, pp 693-99

"Cerebrospinal fluid and the polarography of its proteins."

CZECHOSLOVAKIA

CICVAREX, Z

Central Biochemical Laboratory (Centralne biochemicke
laboratorium), OUNZ Trencin

Bratislava, Bratislavske lekarske listy, No 2, January 1966,
pp 65-68

"The relationship of the polarographic index and the total
protein level in the cerebrospinal fluid."

L 33492-66

ACC NR: AP6023455

SOURCE CODE: CZ/0082/66/000/002/0089/0093

AUTHOR: Cicvarek, Z. (Doctor of medicine); Travnik, K. (Doctor of medicine)

ORG: [Cicvarek] Central Biochemical Laboratory, OUNZ /headed by Doctor of medicine Z. Cicvarek/, Trencin (Centralne biochemicke laboratorium OUNZ); [Travnik] Department of Neurology, Institute for Postgraduate Medical and Pharmaceutical Training in Bratislava /headed by Doctor of medicine K. Travnik/, Trencin (Neurologicka katedra Ustavu pre dalsie vzdelavanie lekarov a farmaceutov v Bratislave)

TITLE: Polarographic index and some routine examinations of the cerebrospinal fluid

SOURCE: Ceskoslovenska neurologie, no. 2, 1966, 89-93

TOPIC TAGS: polarography, central nervous system, protein, polarographic analysis

ABSTRACT: The authors attempted the evaluation of the positive Pandy reaction, the sol of gold and collargol reaction, and the Takata-Ara reaction, and positivity of the polarographic index in the cerebrospinal fluid by statistical methods. An association between the Pandy and the Takata-Ara reaction was found. The polarographic index in the cerebrospinal fluid is a quantitative indication and it indicates albumins not otherwise detectable. Orig. art. has: 5 tables. [Based on authors' Eng. abst.]

SUB CODE: 06 / SUBM DATE: 25 May 65 / ORIG REF: 009 / OTH REF: 002

Card 1/1 82

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IZAKOVIC, V.; IZAKOVICOVA, A.; HNILICA, P.; CIGVAREK, Z. Technická spolupráca: STURDIKOVA, M.

Determination of the corticotropin activity of the hypophysis with metopyrapone (metopirone test). Bratisl. lek. listy 2 no. 1:34-41 '64

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CIDINA, Z.

Lifting and transporting weight. (2d supplement) p. S17-S19.

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Vol. 8, no. 3, Mar. 1959

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WIEDERMANN, Dusan; WIEDERMANNOVA, Drahomira; Technicka spoluprace:
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Dynamics of haptoglobins, protein fractions and turbidity
reactions in the serum of children with influenza A2. Scr.
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(BLOOD CHEMICAL ANALYSIS)

ADAM, Frantisek; CIDLINSKY, Josef

Mechanization of the technical preparation and records of the production in a tool shop: Podnik organizace 17 no.2:87-90 F '63.

1. Automobilove zavody, Mlada Boleslav.

HASSMANN, Wiktor, prof. dr. med.; KORN, Halina; CIECHAN, Anatol

Remote results of the treatment of scleroma. Otolaryng. Pol. 19
no.2:169-173 '65.

1. Z Kliniki Otolaryngologicznej Akademii Medycznej w Białym-
stoku (Kierownik: prof. dr. med. W. Hassmann).

POLAND

POPOW, Jerzy and CIECHAN, Anatol, Department of Pathological Anatomy (Zaklad Anatomii Patologicznej) (Director: Prof. Dr. med. L. KOMCZYNSKI) and the Laryngological Clinic (Klinika Laryngologiczna) (Director: Prof. Dr. med. W. HASSMANN), both of the AM [Akademia Medyczna, Medical Academy] in Bialystok.

"Warthin's Tumor (Papillary Lymphomatic Cystadenoma)."

Warsaw-Krakow, Przegląd Lekarski, Vol 19, Ser II, No 2, 28 Feb 63, pp 157-158.

Abstract: [Authors' English summary] The authors present a case of a Warthin tumor, giving a typical microscopic picture in the parotid glands of a 72-year old woman and discuss opinions on its histogenesis. There are four (4) references cited, of which there is one each of Polish, French, Italian, and English.

CIECHANOWICZ, Lech

Development of production and use of synthetic rubber in
the U.S.A. Polimery tworzywa wielk 8 no.9:325-330 '63.

1. Instytut Przemysłu Gumowego, Warszawa.

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Dynamics of thermal processes in atomic power plants. Archiw automat
5 no.1:45-75 '60 (EEAI 9:6)

1. Instytut Badan Jadrowych Polskiej Akademii Nauk, Zaklad Inzynierii
Reaktorowej.

(Atomic energy) (Thermodynamics)
(Automatic control) (Nuclear reactors)

CIECHANOWICZ, Wieslaw

Transient temperature distribution in a parallel flow heat exchanger.
Archiw automat 6 no.4:533-540 '61.

(Heat exchangers)

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P/046/61/006/005/001/002
D219/D304

26.2223

AUTHOR: Ciechanowicz, Wiesław

TITLE: Transient temperature distribution of the cylindrical fuel element in the case of boundary conditions being time dependent

PERIODICAL: Nukleonika, v. 6, no. 5, 1961, 317 - 324

TEXT: In this paper, the author solves the partial differential equations describing thermal processes in the fuel channel of a reactor core to obtain fuel element temperature distributions. Results of this nature may be used to determine the coolant requirements of a reactor during all phases of transient or emergency operation. A bare rod fuel element with no longitudinal conduction and axially symmetric temperature distribution is considered. Eq. (1) represents the heat source distribution along the element

$$q_v(z, t) = w(t)q(z) = w(t)q_0 \sin \frac{\pi}{L} z$$

(1) X

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where q_v is the heat generated per unit volume per second in the fuel by fission fragments (all other processes being neglected), $w(t)$ a function of time, q_0 the value of q at the mid-point of the element, L the length of the element and z the distance along the element axis. The thermal equations relating fuel element and coolant temperatures are

$$q_v(z, t) dv_f = c_f \rho_f dv_f \frac{\partial T(r, z, t)}{\partial t} - \lambda \left[\frac{\partial^2 T(r, z, t)}{\partial r^2} + \frac{1}{r} \frac{\partial T(r, z, t)}{\partial r} \right] dv_f \quad [2] \quad (2)$$

and

$$U_a [T(a, z, t) - T^*(z, t)] = c_p F \frac{\partial T^*(z, t)}{\partial t} + G_c \frac{\partial T^*(z, t)}{\partial z} \quad [3] \quad (3)$$

with boundary conditions

$$\left[\frac{\partial T(r, z, t)}{\partial r} \right]_{r=0} = 0 \quad [4] \quad (4)$$

$$-\left[\frac{\partial T(r, z, t)}{\partial r} \right]_{r=a} = h [T(a, z, t) - T^*(z, t)] \quad \left(h = \frac{a}{\lambda} \right) \quad [5] \quad (5)$$

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$$T^*(0, t) = T_1^* = \text{const} \quad [6] \quad (6)$$

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and initial conditions

$$T(r, z, 0) = \frac{q_0}{4\lambda} (a^2 - r^2) \sin \frac{\pi}{L} z + \frac{q_0 F_f}{U a} \sin \frac{\pi}{L} z + \frac{q_0 F_f L}{\pi G c} \left[1 - \cos \frac{\pi}{L} z \right] + T_i^* \quad [7] \quad (7)$$

$$T^*(z, 0) = \frac{q_0 F_f L}{\pi G c} \left[1 - \cos \frac{\pi}{L} z \right] + T_i^* \quad [8] \quad (8)$$

Here c_f is fuel specific heat, ρ_f - fuel density, V_f - volume of fuel element, T - fuel temperature, r - fuel element radius, a - outer fuel element radius, U - perimeter of fuel element, T^* - coolant temperature averaged over the channel cross-section, G - coolant specific heat, ρ - coolant density, F - area of channel cross-section, G - coolant mass flow rate, F_f - fuel element cross-sectional area. Abstractor's note: Both λ and α are defined merely as heat transfer coefficients, and T_i^* is not defined. The Laplace transforms of Eqs. (2) and (3) are

Card 3/10 $w(p) q(z) = c_f e_f [pT(r, z, p) - T(r, z, 0)] - \lambda \left[\frac{\partial^2 T(r, z, p)}{\partial r^2} + \frac{1}{r} \frac{\partial T(r, z, p)}{\partial r} \right] \quad [9] \quad (9)$

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$$Ua[T(a, z, p) - T^*(z, p)] = c_{ef} F[pT^*(z, p) - T^*(z, 0)] + Gc \frac{\partial T^*(z, p)}{\partial z} \quad [10] \quad (10)$$

and eliminating partial derivatives in (9) by use of the zero order Hankel transform for the cylindrical region (0, a) gives

$$H[T(r, z, p)] \left[p + \frac{\lambda \xi_i^2}{c_{ef}} \right] = \frac{1}{c_{ef}} H[w(p) q(z)] + H[T(r, z, 0)] + \frac{\lambda a h}{c_{ef}} J_0(\xi_i a) T^*(z, p) \quad [11] \quad (11)$$

where H is the Hankel transform and ξ_i are the roots of

$$\xi_i J'_0(\xi_i a) + h J_0(\xi_i a) = 0 \quad (12)$$

Using the inversion theorem for finite Hankel transforms $T(a, z, p)$ is given, and substituting this in (10) gives

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$$\begin{aligned} \frac{d}{dz} T^*(z, p) + \left[\gamma_1 p + \eta_2 - \eta_3 \gamma_3 \frac{2}{a^2} \sum_i \frac{\xi_i^2}{h^2 + \xi_i^2} \frac{1}{p + \eta_1 \xi_i^2} \right] T^*(z, p) = \\ = \gamma_1 T^*(z, 0) + \eta_2 \frac{2}{a^2} \sum_i \frac{\xi_i^4}{h^2 + \xi_i^2} \frac{1}{J_0(\xi_i a)} \frac{1}{p + \eta_1 \xi_i^2} \times \\ \times \{ \gamma_3 H[w(p) q(z)] + H[T(r, z, 0)] \} \end{aligned} \quad [14] \quad (14)$$

$$\text{where: } \eta_1 = \frac{\lambda}{c_f \varrho_f}; \quad \eta_2 = \frac{Ua}{Gc}; \quad \gamma_1 = \frac{\varrho F}{G}; \quad \gamma_3 = \frac{1}{c_f \varrho_f}; \quad \gamma_3 = \frac{\lambda ha}{c_f \varrho_f}$$

The solution of this

$$\begin{aligned} T^*(z, p) = T_1^* \frac{e^{-B(p)z}}{p} + \frac{P_1(p)}{p Q_1(p)} [1 - e^{-B(p)z}] + \frac{P_2(p)}{Q_2(p)} e^{-B(p)z} + \\ + w(p) \frac{P_3(p)}{Q_2(p)} e^{-B(p)z} + w(p) \frac{P_4(p)}{Q_2(p)} \sin \frac{\pi}{L} z + \frac{P_5(p)}{Q_2(p)} \sin \frac{\pi}{L} z - \end{aligned} \quad (15)$$

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$$-w(p) \frac{P_1(p)}{Q_1(p)} \cos \frac{\pi}{L} z - \frac{P_2(p)}{Q_2(p)} \cos \frac{\pi}{L} z \quad [15] \quad (15)$$

is the Laplace transform of the coolant temperature. Here the $\frac{P(p)}{Q(p)}$ terms are rational algebraic functions resulting from suitable transformations and

$$B(p) = \gamma_1 p + \gamma_2 - \gamma_2 \gamma_3 \frac{2}{a^2} \sum_{i=1}^{\infty} \frac{\xi_i^2}{h^2 + \xi_i^2} \frac{1}{p + \eta_1 \xi_i^2}$$

Substituting $T^*(z, p)$ in (11) and again performing the inverse transformation gives $T(r, z, p)$

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$$\begin{aligned}
 T(r, z, p) = & \frac{2}{a^2} \sum_i \frac{\xi_i^2}{h^2 + \xi_i^2} \frac{J_0(\xi_i r)}{[J_0(\xi_i a)]^2} \frac{1}{p + \beta_i} \left\{ \gamma_i H[w(p) q(z)] + \right. \\
 & + H[T(r, z, 0)] + \gamma_i J_0(\xi_i a) \left[T_i \frac{e^{-\beta_i(p)z}}{p} + \frac{P_1(p)}{p Q_1(p)} (1 - e^{-\beta_i(p)z}) + \right. \\
 & + \frac{P_2(p)}{Q_2(p)} e^{-\beta_i(p)z} + w(p) \frac{P_3(p)}{Q_2(p)} e^{-\beta_i(p)z} + w(p) \frac{P_4(p)}{Q_2(p)} \sin \frac{\pi}{L} z + \\
 & \left. \left. + \frac{P_5(p)}{Q_2(p)} \sin \frac{\pi}{L} z - w(p) \frac{P_3(p)}{Q_2(p)} \cos \frac{\pi}{L} z - \frac{P_2(p)}{Q_2(p)} \cos \frac{\pi}{L} z \right] \right\} \quad [16]
 \end{aligned}$$

where $\beta_i = \gamma_i \xi_i^2$. Assuming that

$$w(t) = (1 + 1) \text{ for } t > 0 \quad (17)$$

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$$w(t) = 1 \quad \text{for } t = 0 \quad (18)$$

then the first term in the summation of Eq. (16) may be obtained. Eq. (5) enables the determination of the second term in the summation, and the inverse Laplace transforms of these two are found. Applying the inverse Laplace transform to Eq. (15) gives a value of $T^*(z, t)$ valid for $t > \gamma$, z , where γ , is the coolant velocity in the channel, and applying the convolution theorem to this value and to the ratio $\frac{1}{p + \beta_1}$ which also appears in (16) gives the inverse Laplace transform of all remaining terms of (16). Assuming for simplicity that $T(r, z, 0) = 0$ and $T^*(z, 0) = 0$, and considering only the terms $i = 1$, then

$$T(r, z, t) = \frac{2}{a^2} \frac{\xi_1^2}{h^2 + \xi_1^2} \frac{J_0(\xi_1 r) \gamma_2}{J_0(\xi_1 a)^2} \frac{P_1(0)}{Q_1(0)} \frac{1}{\beta_1} \left[1 - \cos \frac{\pi}{L} z \right] \times \quad (26)$$

$$\times [1 - e^{-\beta_1(t - \gamma_2)}] + A_1(z) \frac{1}{p_1 + \beta_1} [e^{p_1(t - \gamma_2)} - e^{-\beta_1(t - \gamma_2)}] +$$

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$$\begin{aligned}
 & + A_2 e^{-\beta_1(t-\gamma_1 z)} e^{(\eta_1 D_1 - \eta_1 \beta_1) z / \beta_1} - \frac{P_2(0)}{Q_2(0)} \frac{1}{\beta_1} e^{-\eta_1 z} e^{-\beta_1(t-\gamma_1 z)} \sum_{i=0}^{\infty} \times \\
 & \times \left[\sqrt{\frac{\eta_2 z D_1}{\beta_1^2(t-\gamma_1 z)}} \right]' I_1(2\sqrt{(t-\gamma_1 z)\eta_2 z D_1}) - \sum_s \frac{P_s(p_s)}{P_s Q_s'(p_s)} \frac{1}{p_s + \beta_1} \times \\
 & \times e^{-\eta_1 z} e^{-\beta_1(t-\gamma_1 z)} \sum_{i=0}^{\infty} \left[\sqrt{\frac{\eta_2 z D_1}{(p_s + \beta_1)^2(t-\gamma_1 z)}} \right]' I_1(2\sqrt{(t-\gamma_1 z)\eta_2 z D_1}) \Big\} + \\
 & + \frac{2}{a^2} \frac{\xi_i^2}{h^2 + \xi_i^2} \frac{J_0(\xi_i r)}{[J_0(\xi_i a)]^2} \gamma_2 q_0 \sin \frac{\pi}{L} z \frac{a}{\xi_i} J_1(\xi_i a) \frac{1}{\beta} (1 - e^{-\beta_1 t}) \quad [26] \quad (26)
 \end{aligned}$$

where:

$$\begin{aligned}
 A_1(z) &= \sum_s \frac{P_s(p_s)}{p_s Q_s'(p_s)} e^{-B(p_s)z} - \sum_s \frac{P_s(p_s)}{p_s Q_s'(p_s)} \cos \frac{\pi}{L} z + \\
 & + \sum_s \frac{P_s(p_s)}{p_s Q_s'(p_s)} \sin \frac{\pi}{L} z \\
 A_2 &= \frac{P_2(0)}{Q_2(0)} \frac{1}{\beta_1} + \sum_s \frac{P_s(p_s)}{p_s Q_s'(p_s)} \frac{1}{p_s + \beta_1}
 \end{aligned}$$

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$$\text{and } D_1 = \gamma_3 \frac{2}{a^2} \frac{\xi_i^2}{h^2 + \xi_i^2}.$$

ASSOCIATION: Polish Academy of Sciences, Institute of Nuclear Research, Warsaw. Reactor Engineering Department

SUBMITTED: March, 1961

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D249/D302

AUTHOR:

Ciechanowicz, Wiesław

TITLE:

Influence of the temperature reactivity coefficient on the transient temperature distribution in the rod type fuel element

PERIODICAL:

Nukleonika, v. 6, no. 7-8, 1961, 461-466

TEXT: This paper investigates the problem in its title by solving the system of partial differential equations describing the transient heat exchange and reactor kinetics. Bare fuel elements are considered, with the coolant as a compressible medium, the temperature of which is time-dependent. The reactor is taken to be nearly critical, and the step reactivity change k is less than 0.0075. The fuel element is assumed to have axially symmetric temperature distribution and longitudinal is neglected. From M. A. Schultz (Ref. 2: Control of Nuclear Reactors and Power Plant, New York, 1955, McGraw-Hill, p.46), the equations describing the reactor kinetics may be written, using the Laplace transform and simplifying,

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Influence of the...

$$\Delta n(p) = \frac{p+\lambda}{p(p+\epsilon)} \frac{n_0}{l^*} [\delta k(p) - \Gamma \cdot \Delta T(r, z, p)] \quad \text{Eq. (3)}$$

where Δn is a small change in n , n_0 is the steady state value of n , n is the neutron density, λ is the average delayed neutron decay constant, Γ is the negative temperature coefficient of reactivity, ΔT is the increase in fuel element temperature from time $t=0$, ℓ^* is the effective time between successive generations of neutrons, and ϵ is the average root (denoted by r in Ref. 2: Op. cit.). With the assumptions made, the transient heat exchange in the fuel element is

$$\Delta q_r(z, t) dV = c_p \cdot dV \frac{\partial \Delta T(r, z, t)}{\partial t} - \lambda' \nabla^2 \Delta T(r, z, t) dV \quad \text{Eq. (4)}$$

with boundary conditions

$$\left[\frac{\partial \Delta T(r, z, t)}{\partial r} \right]_{r=0} = 0$$

Eqs. (5) and (6)

$$-\left[\frac{\partial \Delta T(r, z, t)}{\partial r} \right]_{r=a} = h \cdot \Delta T(a, z, t) \quad \left(h = \frac{\lambda'}{a} \right)$$

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Influence of the...

when the heat distributions along a fuel element is

$$\Delta q_0(z, t) = \mu \cdot \Delta n(t) \sin \frac{\pi}{L} z \quad \text{Eq. (7)}$$

q_v is the heat generated in the fuel per second by fission fragments (other processes being neglected), V the volume, C the specific heat, ρ the density, λ the thermal conductivity, r the radius, a the outer radius, L the length, and α the heat transfer coefficient of the fuel element; μ is the relation between heat generated and neutron density, and z is the spatial variable along the fuel element axis. For the solution, using Laplace and Hankel transforms of Eq. (4) together with the boundary condition of Eq. (6), and substituting from Eq. (3) for the neutron density, on the assumption that $k(p)$ is a step function, the equation

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Influence of the...

$$\Delta T(r, z, t) = \frac{2}{a} \sum_{\xi_i} \frac{\xi_i^2}{h^2 + \xi_i^2} \frac{J_0(\xi_i r)}{J_0^2(\xi_i a)} \frac{J_1(\xi_i a)}{\xi_i} \delta k \cdot \gamma \sin \frac{\pi}{L} z L^{-1} \times$$

$$\times \left[\frac{p + \lambda}{p(p + p_1)(p + p_2)(p + p_3)} \right] = \frac{2}{a} \sum_{\xi_i} \frac{\xi_i^2}{h^2 + \xi_i^2} \frac{J_0(\xi_i r)}{J_0^2(\xi_i a)} \frac{J_1(\xi_i a)}{\xi_i} \delta k \cdot \gamma \sin \frac{\pi}{L} z \times$$

$$\times \left\{ \frac{\lambda}{p_1 p_2 p_3} - \frac{\lambda - p_1}{p_1(p_2 - p_1)(p_3 - p_1)} e^{-p_1 t} + \frac{\lambda - p_2}{p_2(p_2 - p_1)(p_3 - p_2)} e^{-p_2 t} - \frac{\lambda - p_3}{p_3(p_3 - p_1)(p_3 - p_2)} e^{-p_3 t} \right\}$$

Eq. (20)

is obtained, where ξ_i is a root of

$$\xi_i J_0'(\xi_i a) + h J_0(\xi_i a) = 0 \quad \text{Eq. (11)}$$

and p_1, p_2, p_3 are roots of

$$p^3 + \left[\frac{\lambda' \xi_i^2 + e c q}{c q} \right] p^2 + \left[\frac{\lambda' \xi_i^2 e + \Gamma \mu \frac{n_0}{\gamma} \sin \frac{\pi}{L} z}{c q} \right] p + \frac{\Gamma \lambda \mu \frac{n_0}{\gamma} \sin \frac{\pi}{L} z}{c q} =$$

Eq. (18)

$$= (p + p_1)(p + p_2)(p + p_3) = 0$$

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with γ defined by

$$\gamma = \frac{\mu n_0}{c \rho l^2}$$

Eq. (17)

Eq.(20) then gives the distribution of rise in fuel element temperature as a function of time and space. There are 3 figures and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: M. A. Schultz: Control of Nuclear Reactors and Power Plant, New York, 1955, McGraw-Hill.

ASSOCIATION: Polish Academy of Sciences, Institute of Nuclear Research,
Warsaw, Reactor Engineering Department

SUBMITTED: May, 1961

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CIECHANOWICZ

W.

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 2. "Analysis of Laby's Resonator as a Complex Control System," Mikhail KUCHENSKI, pp 389-397 (English summary).
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 8. "On Properties of the Myoelectric Inverse-Parallel Circuit with Inductive Load," Jozef LUCINSKI, pp 463-471 (English summary).
 9. "Load Characteristics of Iron Harmonic Resonance Amplifiers," Jan KUCHENSKI and Konstantin KULIKOVSKI, pp 473-492 (English summary).
 10. "A Study of Control Properties of Counter-Current Load Motor with the Medium Variable Flow," Mikhail KUCHENSKI, pp 493-510 (English summary).
 11. "Self-compensating Ability of Rotated Steam Generator with Natural Water Circulation," Prokhor KUCHENSKI, pp 511-522 (English summary).
 12. "Transient Temperature Distribution of the Parallel Flow Heat Exchanger," Mikhail KUCHENSKI, pp 523-540 (English summary).

CIECHANOWSKA, Anna

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prof. dr. Marian Wilczek).

CIECHANOWSKA, Anna

Current views on the structure of the filtration angle of the eye and its pathology in glaucoma. Klin. oczna 34, no.2:185-191 '64.

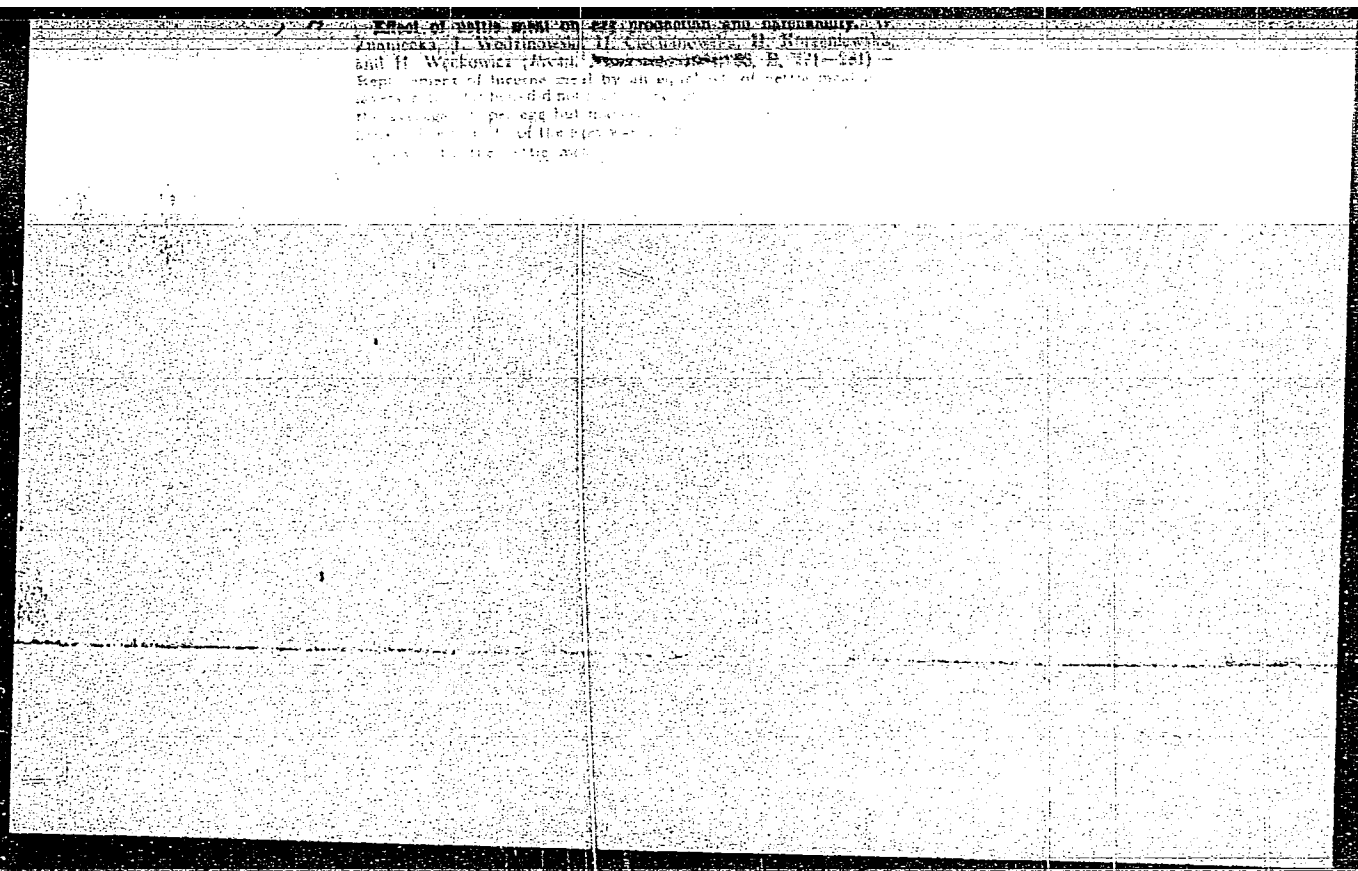
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Bytomiu (kierownik: doc.dr.med. H.Skaiba) i z I Kliniki
Chorob Oszu AM w Krakowie (kierownik: prof.dr.med.
M.Wilczek).

*



CIECHANOWSKI, S

CIECHANOWSKI, S.

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p. 28 (Budownictwo Wiejskie) Vol. 7, no. 2, Mar./Apr. 1955, Warszawa, Poland

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H. HUKSIN